

Direct Commands

The commands described in this section activate processing, and are available both in online mode and in batch mode.

The following topics are covered below:

- General Information
 - Setting Parameters and Values for Subsequent Processing
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 - Changing the Values of Stored Parameters
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 - Copying an Environment
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 - Starting JCL Generation
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 - Loading Table Data from Software AG Delivery Tapes
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General Information

Like most Software AG products, SMA can be used either in a menu-driven way or by entering direct commands.

In dialog mode, these commands can be entered in the command line at the bottom of each screen. Maximum length is 60 bytes.

In batch mode, the commands are input for the program MENU. The maximum length is 80 bytes. To continue over several command lines, use the continuation character %. They will be replaced by blanks before execution.

The following input in the command line is always valid:

- A period (.) has the same effect as PF3, that is, it returns to the previous menu.
- A two digit number from 01 to 12 has the same effect as the corresponding PF key.

The commands have the following syntax:

<function> <object-type> <object> <additional values>

Not all functions are implemented for all object-types. The following topics describe the valid command combinations.

Setting Parameters and Values for Subsequent Processing

SET ENVIRONMENT <environment-name>

This command selects the environment in which subsequent commands will operate. If the specified environment does not exist, an error message will be displayed.

SET PRINT-SIZE <number-of-lines>

This command defines the page size for reports.

SET LANG <language-code 1 or 2>

This command sets the language code for the SMA dialog (1 = English, 2 = German).

SET PRINT-ID

This command sets the printer ID for reports and print functions.

SET LOAD VOLser <VOLser>

This command influences all subsequent LOAD operations during this run; the original serial name of the tape will be replaced in the SMA table data with the new name. This can be useful if the Software AG delivery tape has to be copied to a new tape, due to local data center regulations.

Marking Products for Installation

INStall <product> <environment>

With this command, the specified product is marked as "to be installed". Installation JCL for this product will be generated by the next JCL generation step.

The product is specified using six characters, including the version number (for example, NAT234).

If an asterisk (*) is specified instead of a product name, all products available in this SMA file are marked as "to be installed".

If <environment> is omitted, the environment specified with the last SET ENV command is taken.

Changing the Values of Stored Parameters

MODify PARAmeter <environment> <parameter-name> <value>

This command sets the new value for the specified parameter. If <environment> is omitted, the environment specified with the last SET ENV command is taken.

MODify PARAmeter GLOBAL-PARMS <parameter-name> <value>

This command modifies the value of a global parameter (see Global Parameters in the section Menus and Line Commands).

MODify GLOBAL <parameter-name> <value>

The following parameters can be specified as GLOBAL parameters: PRINT-SIZE and PRINT-ID.

The meaning of these parameters is the same as documented for the SET command (see Setting Parameters and Values for Subsequent Processing earlier in this section). In contrast to the SET command, which sets the values for the current session only, the values specified with the MODIFY GLOBAL command are stored permanently.

Copying a Correction

COPY ZAP <old-correction-number> <new-correction-number>
<operating system> <new symbolic dataset name><modify y/n>

An existing correction is copied under a new name (e.g., for a different dataset). If "y" is specified for the last parameter, all occurrences of the old correction number are replaced by the new correction number in the correction text.

Copying an Environment

COPY ENV <old-environment-name> <new-environment-name> <text>

This command copies an existing environment. The <text> will be used as the first line of explanatory text for the new environment. The new environment becomes the current one for subsequent commands.

Renaming an Environment

REName ENV <old-environment-name> <new-environment-name> <text>

This command renames an existing environment. The <text> will be used as the first line of explanatory text for the new environment. The new environment becomes the current one for subsequent commands.

Starting JCL Generation

GENERATE <environment>
GENerate TAPE <tape>
GENerate ZAPS <lib-group>

JCL generation is started for the selected environment. If <environment> is omitted, the environment specified with the last SET ENV command is taken.

The generated JCL lines will be written into the SMA database and into work file 2. The JCL lines on workfile 2 contain additional lines at the beginning of each job, enabling the separation of the sequential file into a source library. In OS, this separation is done by the standard IEBUPDTE utility program.

Please see member JCLGEN in the source library when running these commands in batch.

The command GEN TAPE or GEN ZAPS starts JCL generation for copying marked datasets from tape to disk or for applying ZAPs, respectively. Copy steps are generated for the tape specified or for all tapes if <tape> has been omitted.

Application of ZAPs is generated for the specified library group only.

Deleting Generated Jobs

DElete JOBS <environment>

The JCL generator checks that no generated jobs are stored for this environment. This check ensures a meaningful order of JCL generation and execution.

The user may circumvent this check by deleting all jobs stored in the specified environment using this command.

Committing New Values

SET-INSTALLED <environment>

This command changes the status of products from "to be installed" to "installed" and the status of new parameter values to "installed" values.

This command is executed by the last generated job in an installation sequence. It can also be called directly to document the status of the parameters and installed products in an existing environment.

SET-COPIED

SET-COPIED TAPE <tape>

SET-COPIED LIB-GROUP <library-group>

This command resets the status "to be copied" for all datasets (first format), for the datasets of the tape specified, or for the datasets of the library group specified.

SET-APPLIED LIB-GROUP <lib-group>

This command changes the status from "to be applied" to "applied", and from "to be undone" to "undone" for all ZAPs in the named library group.

Loading Table Data from Software AG Delivery Tapes

LOAD

With this command, Software AG product tapes are made known to SMA. Control data is read from workfile 1, converted, and stored in the SMA database. Workfile 1 of Natural must be assigned to the first dataset on a Software AG SMA delivery tape.

Printing Reports

REPort ENVironment <environment>

This command prints a report of the selected environment. The environment description, list of installed products (when, by whom, etc.) and parameter settings are printed.

If <environment> is omitted, the environment specified with the last SET ENV command is taken.

REPort TApe <tape-volume-serial-number>

Detailed information on tapes, tape description texts and datasets on tape is printed.

If <tape-volume-serial-number> contains an asterisk (wild-card), the corresponding group of tapes is selected.

REPort DATAsets <operating-system> <product>

This command prints a report of all datasets known to SMA, sorted by product names.

If <product> contains an asterisk (wild-card), the corresponding group of products is selected.

REPort PARM <environment> <parameter-group>

This report shows all available parameters, their explanations and their current values in the specified environment. This report should be used when preparing to install Software AG products with SMA.

The specification of the parameter group is optional. If it is given, then only the parameters of this group are shown.

REPort VALue<parameter> <parameter-group>

This report shows the values of all parameters contained in the specified group.

The specification of the parameter group is optional.

REPort JCL <skeleton-name>

This report shows the JCL skeleton, and lists the parameters occurring in this skeleton. When used in batch, the command SET ENVIRONMENT must be entered first, for example:

```
LOGON SMA1
MENU
SET ENVIRONMENT OS/MVS
REPORT JCL ADALOD5
```

REPort ZAP-APPLIED <from> <to> <operating-system>

This report gives an overview of the ZAPs applied, sorted by ZAP number, including the information where, when and by whom the ZAPs were applied.

REPort ZAP-LIST <from> <to> <operating-system>

This report contains the source lists of the ZAPs applied in an environment.

REPort ZAP-LIBS <dataset-name>

This report gives an overview of the ZAPs applied sorted by libraries.

REPort RESOURCES <environment>

This report lists "resources" created by internal jobs. Resource types are:

- Adabas files
- Source members
- Load members

Executing Natural Commands

Natural <text>

The text is passed directly to Natural for interpretation as a direct command of Natural itself.

The following Natural commands may be entered directly, without the preceding NAT command:

- SYS... each command starting with SYS
- EDIT
- EX or EXECUTE
- FIN
- GLOBALS
- LOGON

Working with Datasets

ADD DATASET <symbolic-dataset-name> <library-group-name> <op.-system>

A record for a new copy of the specified dataset is entered into the specified library group. The specified dataset must exist, but not yet in this group.

DEL DATASET <symbolic-dataset-name> <library-group-name> <op.-system>

The table entry describing the copy of a dataset (library) is deleted. The record pointing to the Software AG delivery group cannot be deleted.

Note that this command does not delete the dataset itself; only SMA's table entry for this dataset is deleted.

SET TO-BE-COPIED

<symbolic-dataset-name> <library-group-name> <operating-system>

This command sets the status "to be copied" for the dataset specified.

Unloading Generated or Saved Jobs

UNLOAD JOBS <environment>

All generated jobs stored under the given environment are written into Natural workfile 2. Control records for the corresponding library utility (IEBUPDTE, LIBR) are also written.

UNLOAD SAVED <Group-Name>

All saved jobs stored in the given group are written to Natural work file 2. Control records, for the corresponding library utility (IEBUPDTE, LIBR), are also written.

UNLOAD ZAP NAMED <zap-number> <op.sys>

The specified ZAPs are written to Natural work file 2.

In <zap-number> *-notation can be used. Control records for the corresponding library utility (IEBUPDTE, LIBR) are also written.

UNLOAD ZAP FOR <symb.DSN> <op.sys>

The ZAPs belonging to the specified dataset are written to Natural work file 2. Control records for the corresponding library utility (IEBUPDTE, LIBR) are also written.

UNLOAD TABS-JOBS <environment-name> AS <new-env-name>

This command is similar to the UNLOAD JOBS command. The output, however, contains control commands, so that it can be loaded into this SMA file or a different one, via the command LOAD.

The AS <new-env-name>portion of the command is optional.

UNLOAD TABS-MAINT <group-name> AS <new-grp-name>

This command is similar to UNLOAD SAVED. The output also contains control commands, so that using the command LOAD, it can be loaded into this SMA file or a different one.

The AS <new-grp-name>portion of the command is optional.

UNLOAD TABS-ZAP NAMED <zap-name> <op.sys>

This command is similar to the UNLOAD ZAP NAMED command. The output contains control commands, so that it can be loaded into this SMA file or into a different one, via the command LOAD.

UNLOAD TABS-ZAP FOR <symb.DSN> <op.sys>

This command is similar to UNLOAD ZAP FOR. The output contains control commands, so that it can be loaded into SMA via the command LOAD.

Unloading JCL Skeletons and Parameters

UNLOAD TABS-JCL <environment-name*><JCL-skeleton-name*>

This command is used to unload JCL-skeletons from the default environment as well as from the user environments (an asterisk notation is possible). The output, however, contains control commands, so that it can be loaded into this SMA file or a different one, via the command LOAD.

UNLOAD TABS-PRPARM <operating system><Symbolic-Parameter-name*>

This command is used to unload parameter descriptions (an asterisk notation for the parameter-name is possible). The output, however, contains control commands, so that it can be loaded into this SMA file or a different one, via the command LOAD.

UNLOAD TABS-PPVALUE <environment-name*><Symbolic-Parameter-name*>

This command is used to unload parameter values from the default environment as well as from the user environments (an asterisk notation is possible). The output, however, contains control commands, so that it can be loaded into this SMA file or a different one, via the command LOAD provided the corresponding parameter description has already been loaded.

Copying Generated Jobs

COPY JOBS <environment-name> [<to-group-name> [<job-prefix>]]

This command is used to copy generated jobs into the Saved Jobs area.

If to-group-name is not specified, then the environment-name is used by default. If both environment-name and to-group-name are specified, then a maximum of four characters can be used as a prefix for the job-names.

Adding a Product Definition

ADD PProduct <product> <operating-system> <product-long-name>

This command adds a product definition.

<product> must be six characters long. In order to avoid conflicts with Software AG's product short names (three letters followed by three figures), a different naming convention should be used.

This command may be useful for documentation purposes when a system which is not supported by SMA is installed in an environment.

Note that SMA cannot generate JCL for the installation of this type of product.

Commands for Dialog Control

The following commands can be used to access a menu function directly without having to return to the main menu first.

T

The window "select dataset access method" will appear.

This is the same as entering "T" in the Main Menu.

T VOL

The tape selection list will appear.

T VOL <volume> <line-cmd>

The <line-cmd> will be applied to the specified volume.

Example:

If you enter the following, a list of datasets on this tape will be shown:

```
T VOL T21088 DA
```

T PROD

The product selection list will appear.

This is the same as first entering "T" in the Main Menu, and then selecting "product".

E

The environment selection list will appear.

This is the same as entering "E" in the Main Menu.

E <name>

The environment selection list will appear, positioned to the specified environment.

E <name> <line-command>

The line command will be applied to the specified environment.

Example:

If you enter the following, you will see the "Modify Environment" window for environment TESTENV:

```
E TESTENV MO
```

Z

The library group selection will appear.

This is the same as entering "Z" in the Main Menu.

R

The Report menu will appear.

This is the same as entering "R" in the Main Menu.

The report commands as documented earlier will bring you to the corresponding locations.

A

The administration menu will appear.

This is identical to entering "A" in the Main Menu.

A PARAM

Jump to "Global Parameters".

A SAVED

Jump to "Saved Jobs".

A PROFile

Jump to "SMA Profile".

A TABLoad

Jump to "Tabload".

A PROducts

Jump to "Unused Products".

A TAPE

Jump to "Unused Tapes".

A IUPD

Jump to "Unused IUPDs".

A LIB-group

Jump to "Unused Lib-groups".